

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A vehicle drive ~~system,~~ system comprising:
a rotating electric machine ~~having a structure~~ capable of rotating about an output shaft in a forward direction and in a reverse direction in which torque ripple is smaller than torque ripple ~~in said in the forward direction; and~~ direction;

a rotation shaft rotating in a direction to move a vehicle forward according to the rotation ~~of said of the~~ output shaft in the forward ~~direction~~ direction;

a direct-current power source;

an inverter placed on a current feeding and receiving path between the direct-current power source and the rotating electric machine; and

a control unit gaining rotation information from the rotating electric machine to control the inverter, wherein

the control unit controls the inverter such that torque in the forward direction is produced in a rotor in response to an acceleration instruction to cause the rotating electric machine to run in a power mode, and torque in the reverse direction is produced in the rotor in response to a deceleration instruction to cause the rotating electric machine to run in a regenerative mode.

2. (Currently Amended) The vehicle drive system ~~according to~~ of claim 1, ~~wherein said wherein~~ the rotating electric machine ~~includes~~ comprises:

a ~~stator,~~ stator; and

~~a rotor~~ the rotor shaped to cause smaller torque ripple when rotating ~~in said in~~ the reverse direction than ~~in said in the~~ forward direction.

3. (Currently Amended) The vehicle drive system ~~according to~~ of claim 2, ~~wherein said~~ wherein the rotor includes further comprises a plurality of salient pole portions, and each tip portion ~~of said~~ of the plurality of salient pole portions has a large chipped portion at a corner on the side in the reverse direction relative to a corner on the side ~~in said~~ in the forward direction.

4. (Canceled)

5. (Currently Amended) ~~The vehicle~~ A vehicle drive system ~~according to claim 1,~~ further comprising:

a rotating electric machine having a structure capable of rotating about an output shaft in a forward direction and in a reverse direction in which torque ripple is smaller than torque ripple in the forward direction;

a rotation shaft rotating in a direction to move a vehicle forward according to the rotation of the output shaft in the forward direction;

a direct-current power source;

an inverter placed on a current feeding and receiving path ~~between said~~ between the direct-current power source and said and the rotating electric machine; and

a control unit gaining rotation information ~~from said~~ from the rotating electric machine to ~~control said~~ control the inverter, wherein

~~said control the control unit instructs said~~ instructs the inverter to feed a compensation current in accordance ~~with said~~ with the rotation information so as to reduce torque ripple ~~of said~~ of the rotating electric machine in a part of a rotation region when in a power running mode ~~of said~~ of the rotating electric machine to move the vehicle forward.

6. (Currently Amended) The vehicle drive system ~~according to~~ of claim 5, ~~wherein said~~ wherein the one part of the rotation region is a rotation region which corresponds to a region in ~~which said~~ which the vehicle runs in a creep state.

7. (Currently Amended) A vehicle comprising:

a vehicle drive system ~~including~~ comprising

a rotating electric machine having a structure capable of rotating about an output shaft in a forward direction and in a reverse direction in which torque ripple is smaller than torque ripple ~~in said in the forward direction, and direction,~~

a rotation shaft rotating in a direction to move a vehicle forward according to the rotation ~~of said of the~~ output shaft in the forward ~~direction, and direction,~~

a direct-current power source,

an inverter placed on a current feeding and receiving path between the direct-current power source and the rotating electric machine, and

a control unit gaining rotation information from the rotating electric machine to control the inverter, wherein

the control unit controls the inverter such that torque in the forward direction is produced in a rotor in response to an acceleration instruction to cause the rotating electric machine to run in a power mode, and torque in the reverse direction is produced in the rotor in response to a deceleration instruction to cause the rotating electric machine to run in a regenerative mode; and

a wheel connected ~~to said to the~~ rotation shaft.

8. (Currently Amended) The vehicle ~~according to of~~ claim 7, ~~wherein said wherein the~~ rotating electric machine ~~includes further comprises:~~

a ~~stator, stator;~~ and

~~a rotor~~ the rotor shaped to cause smaller torque ripple when rotating ~~in said in the~~ reverse direction than ~~in said in the~~ forward direction.

9. (Currently Amended) The vehicle ~~according to of~~ claim 8, ~~wherein said wherein the~~ rotor ~~includes further comprises~~ a plurality of salient pole portions, and each tip

portion ~~of said~~ of the plurality of salient pole portions has a large chipped portion at a corner on the side ~~in said~~ in the reverse direction relative to a corner on the side ~~in said~~ in the forward direction.

10. (Canceled)

11. (Currently Amended) ~~The vehicle according to claim 7, wherein said A~~
vehicle comprising:

a vehicle drive system further includes comprising

a rotating electric machine having a structure capable of rotating about
an output shaft in a forward direction and in a reverse direction in which torque ripple is
smaller than torque ripple in the forward direction,

a rotation shaft rotating in a direction to move a vehicle forward
according to the rotation of the output shaft in the forward direction,

a direct-current power source,

an inverter placed on a current feeding and receiving path ~~between said~~
between the direct-current power source ~~and said~~ and the rotating electric machine, and

a control unit gaining rotation information ~~from said~~ from the rotating
electric machine ~~(1) to control said~~ machine to control the inverter, wherein

~~said control the control~~ unit instructs said instructs the inverter
to feed a compensation current in accordance ~~with said~~ with the rotation information so as to
reduce torque ripple ~~of said~~ of the rotating electric machine in a part of a rotation region when
in a power running mode ~~of said~~ of the rotating electric machine to move the vehicle
~~forward~~ forward; and

a wheel connected to the rotation shaft.

12. (Currently Amended) The vehicle ~~according to~~ of claim 11, ~~wherein said~~
wherein the one part of the rotation region is a rotation region which corresponds to a region
in ~~which said~~ which the vehicle runs in a creep state.